

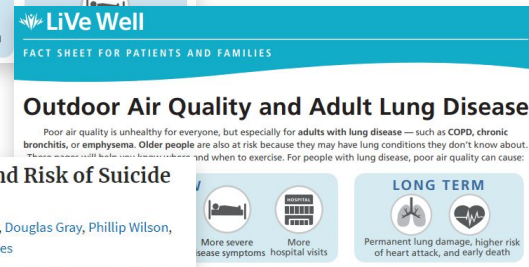


UTAH DEPARTMENT of
ENVIRONMENTAL QUALITY

**AIR
QUALITY**

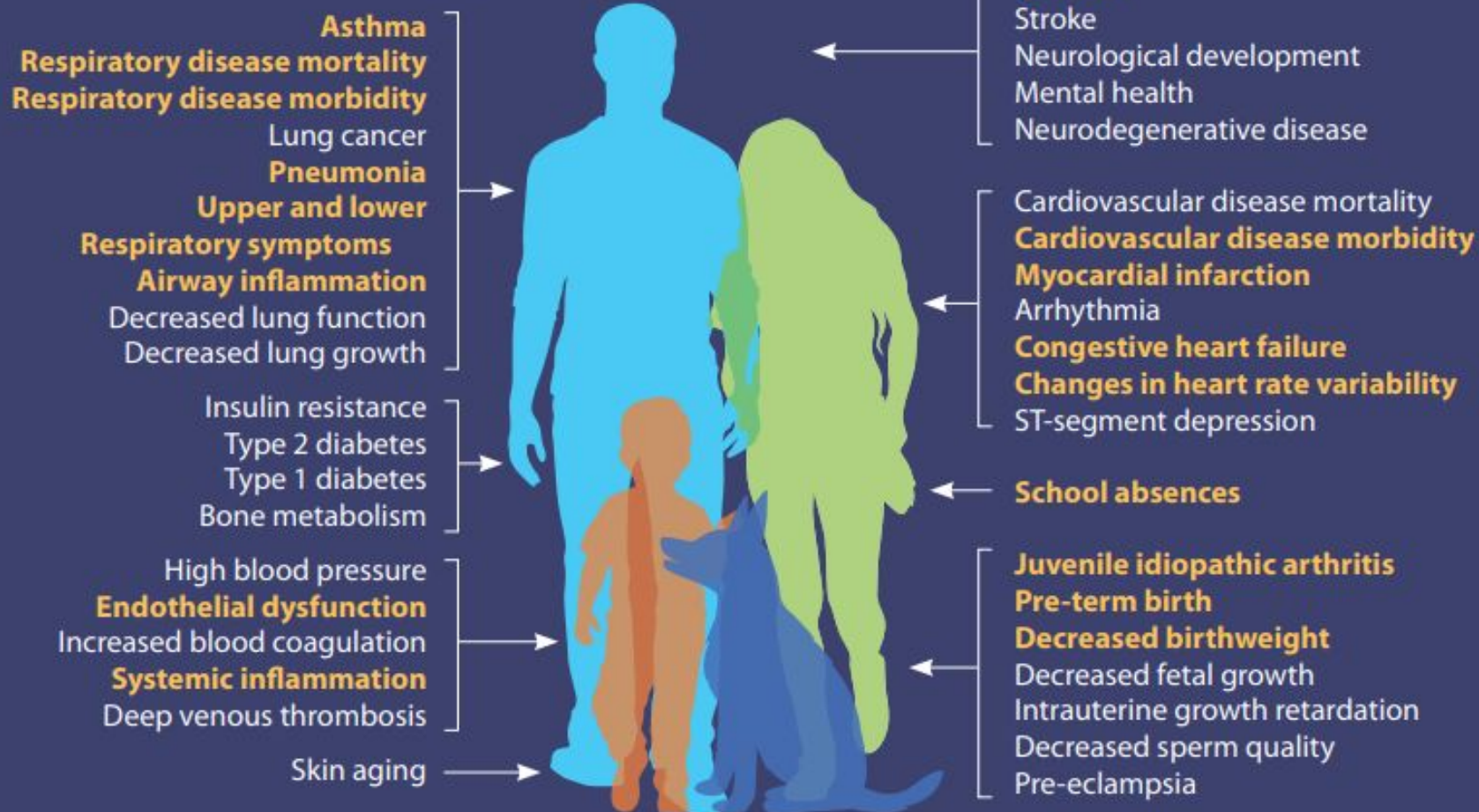
AIR QUALITY **APPROPRIATIONS** 2022

Air pollution is harmful to public health.



Health Effects of Air Emissions and Pollutants

Utah-based health studies highlighted in **yellow**



Air Conservation Act

(Utah Code 19-2-101)

PURPOSE

To achieve and maintain levels of air quality which will protect human health and safety, and to the greatest degree practicable, prevent injury to plant and animal life and property, foster the comfort and convenience of the people, promote the economic and social development of this state, and facilitate the enjoyment of the natural attractions of this state.

What we do.

→ *Air Quality Board*

Planning

- Air Monitoring
- Air Quality Policy
- Technical Analysis
- Emissions Inventory

Permitting

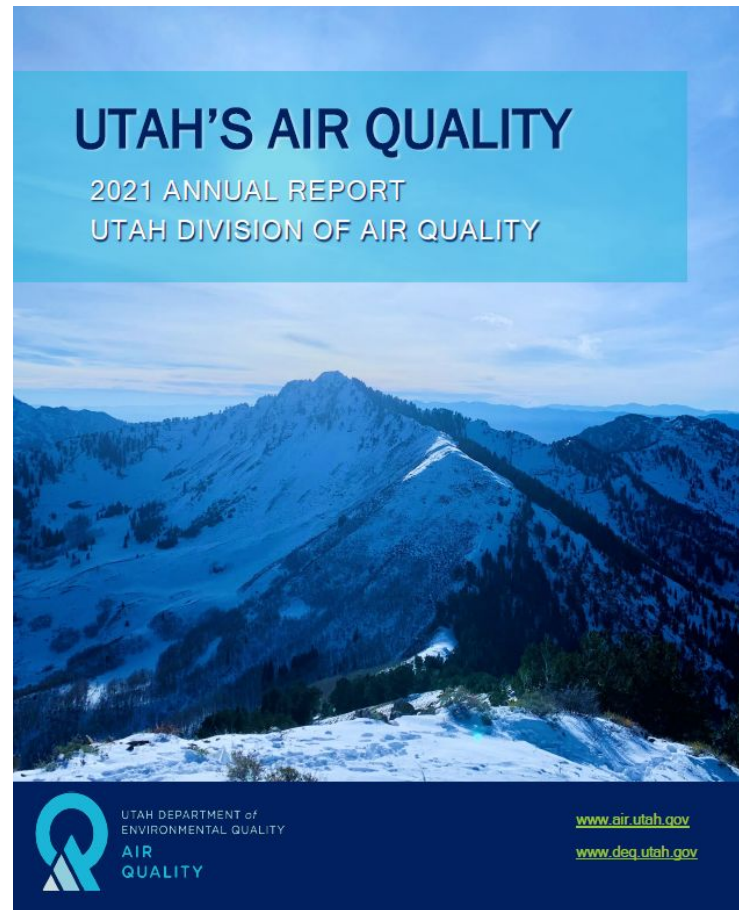
- Major New Source Review
- Minor New Source Review
- Operating Permit – CAA Title V sources

Compliance

- Air Toxics, Lead and Asbestos
- Minor Source Compliance
- Major Source Compliance



Annual Report

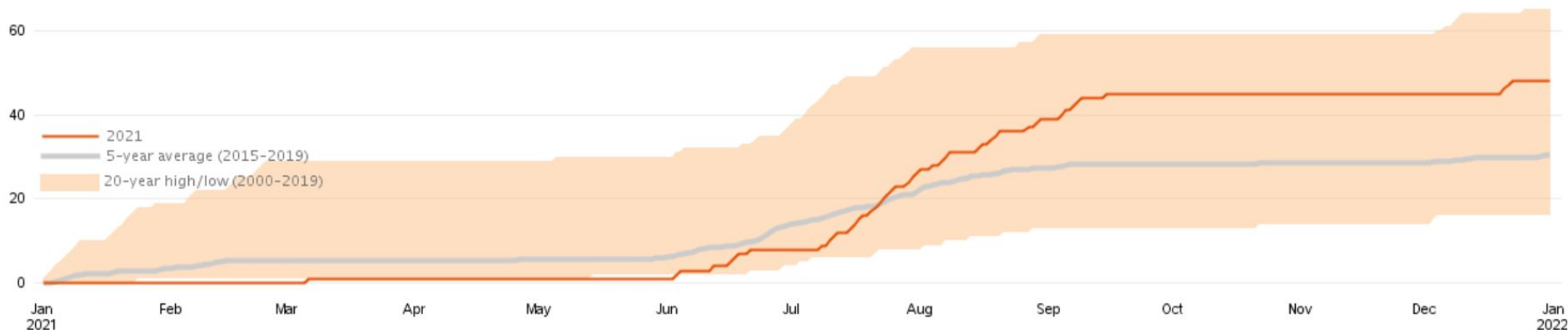


<https://documents.deq.utah.gov/air-quality/planning/air-quality-policy/DAQ-2022-000342.pdf>

Wasatch Front combined PM_{2.5} and ozone in 2021

Cumulative Number of AQI Days >100

Salt Lake County, UT



Source: U.S. EPA AirData <<https://www.epa.gov/air-data>>

Generated: January 31, 2022

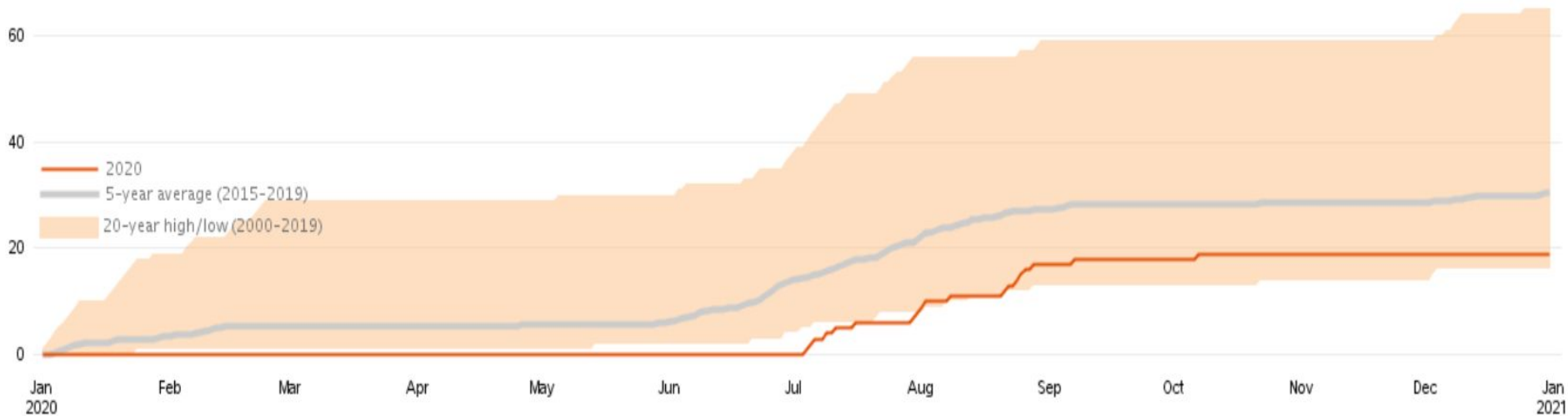


<https://www.epa.gov/outdoor-air-quality-data/air-data-daily-air-quality-tracker>

Wasatch Front combined PM_{2.5} and ozone in 2020

Cumulative Number of AQI Days >100

Salt Lake County, UT



Source: U.S. EPA AirData <<https://www.epa.gov/air-data>>

Generated: January 28, 2021



<https://www.epa.gov/outdoor-air-quality-data/air-data-daily-air-quality-tracker>

Air Quality Update

Non-attainment

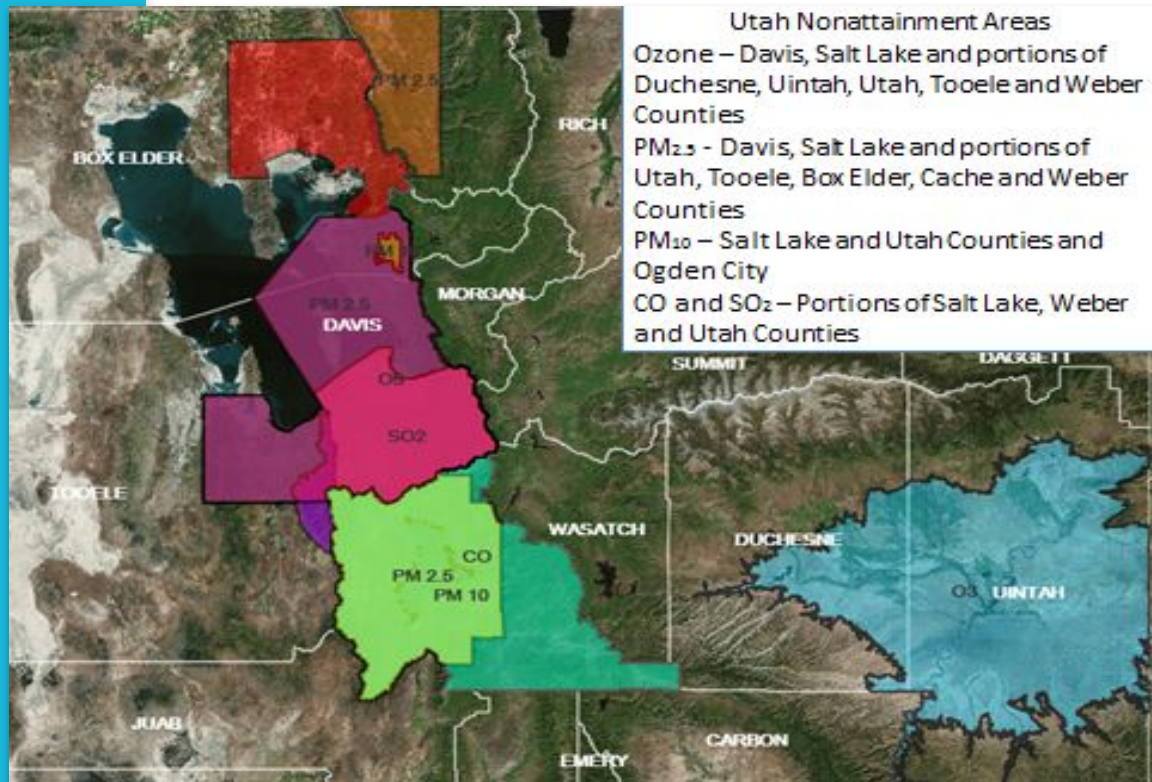
Focused on meeting federal air quality standards through planning, permitting and compliance

Clean Data

Determinations for Logan, Provo and Salt Lake PM_{2.5} Non-attainment areas

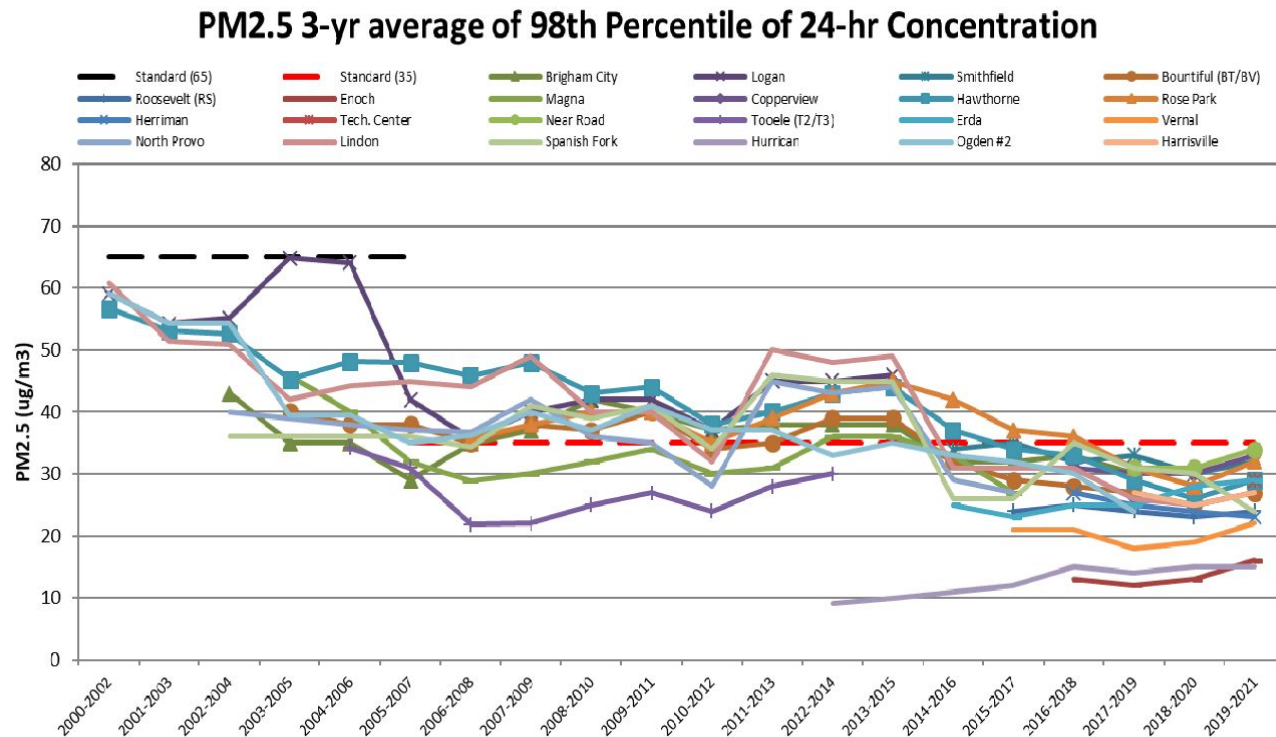
Maintenance Plans

Implementation Plan for Salt Lake, Provo and Logan PM_{2.5} Non-attainment areas

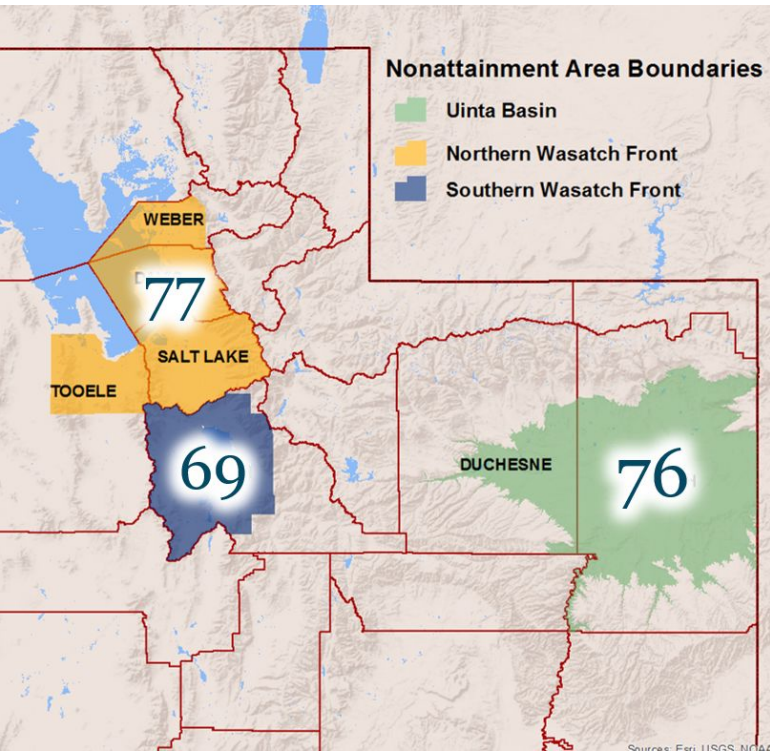


Fine Particulate Matter – PM_{2.5}

- All areas have attained the 2006 PM_{2.5} NAAQS and a federally approved Clean Data Determination
- Maintenance plans show continued attainment of the standard to 2035
- EPA has proposed redesignation to attainment



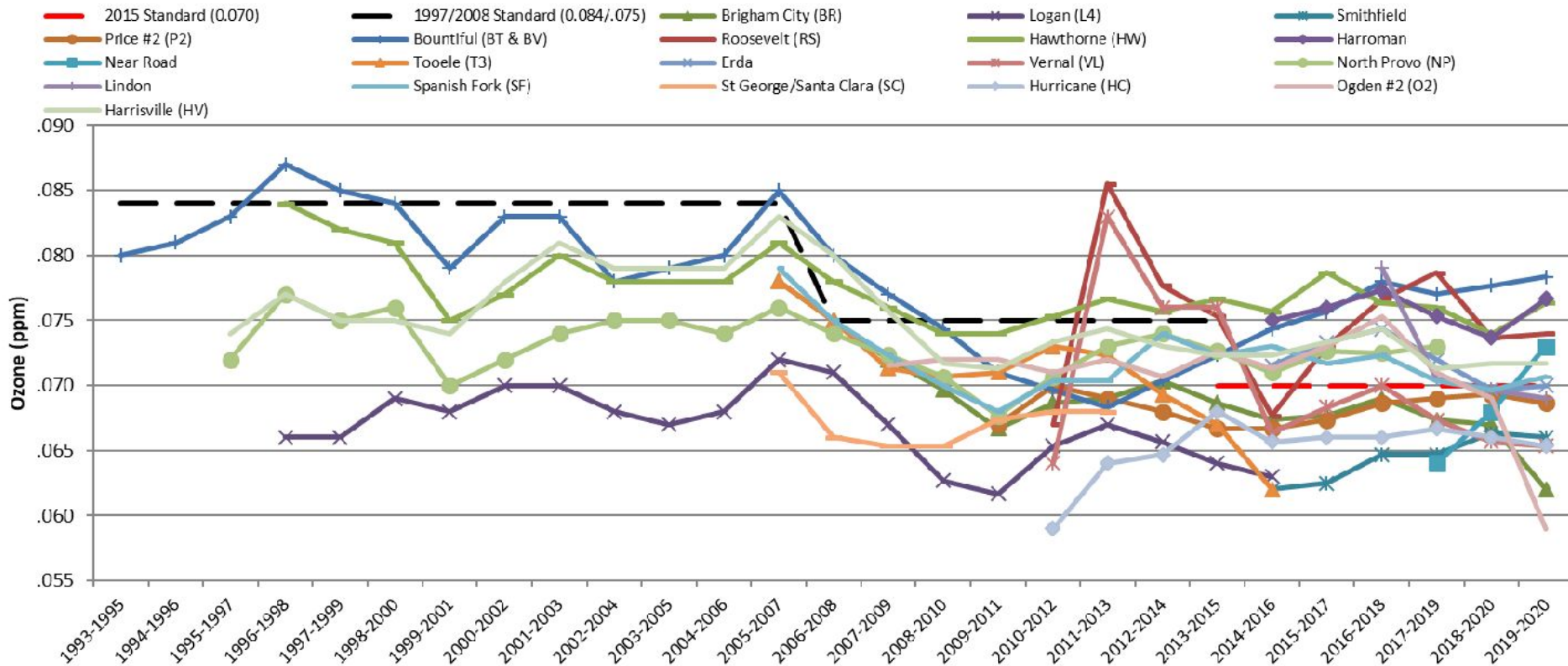
Utah Ozone Nonattainment Area Planning



- Three nonattainment areas currently classified as Marginal
- Attainment deadline: Aug. 2021 (based on 2018, 2019 & 2020 data)
- **If the standard is not met**, we will be bumped up to Moderate which requires:
 - 15% reduction of NO_x and VOCs
 - Vehicle Inspection and Maintenance Program
 - Reasonably Available Control Technology installed on point sources
 - Demonstration of attainment by Aug. 2024

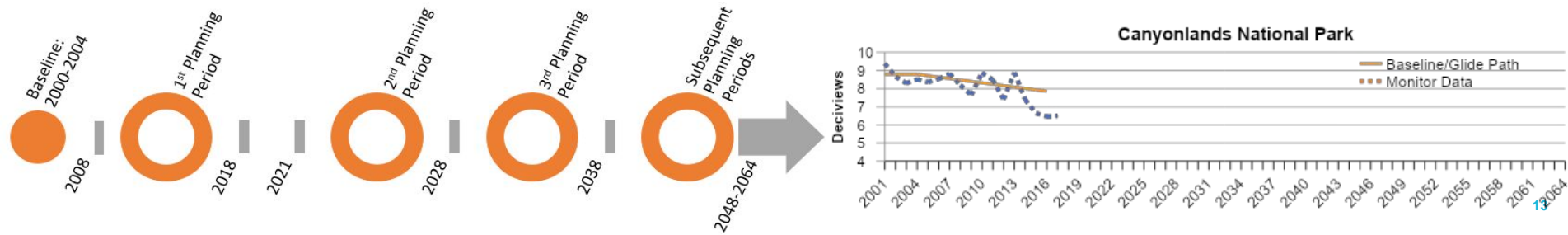
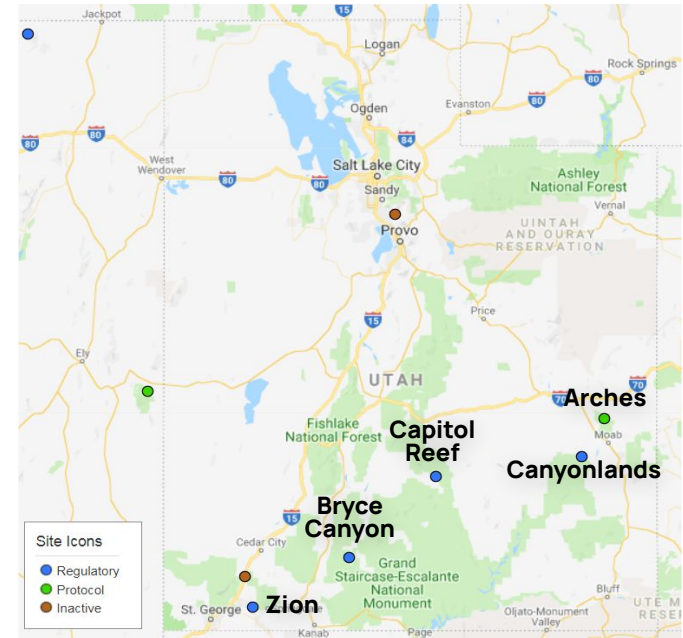
Utah Ozone Nonattainment Area Planning

3-Year Average 4th Highest 8-hr Ozone concentration



Regional Haze 2nd Planning Period

- Protect visibility in Class I areas
- Reasonable Progress is the second round focus
- Reasonable controls for industrial sources with the highest impact
- Partnership with 15 western states
- Currently working with sources to evaluate potential control measures
- Work over the past 19 years has resulted in visible progress at all five Class I areas





Free Fare Day Pilot Project



4
free days
in 2021

DAQ will
provide a
benefits
analysis to
legislature at
the end of
the program.

Report will
include UTA
data on
ridership &
results from
surveys on
Free-Fare days.

Winter & Summer Campaigns



UTAH
CLEAN AIR
PARTNERSHIP

&



UTAH DEPARTMENT of
ENVIRONMENTAL QUALITY
**AIR
QUALITY**

Winter Campaign 2020-2021

53.5 million impressions

December 7, 2020 to February 22, 2021

The campaign reached **97.2%** of UCAIR's target audience an average of **24.1** times

MEASUREMENT

89% of respondents said they are familiar with personal actions they can take to improve Utah's air





72% reported
being idle free



77% reported lowering their
thermostat by two degrees

Summer Campaign 2021

	Platform	Reach	Frequency
	Twitter	183,482	2.18
	Facebook	161,275	5.14
	Instagram	89,117	4.26

Summer Campaign 2021

TOP PAID SEARCH TERMS

UTAH AIR QUALITY

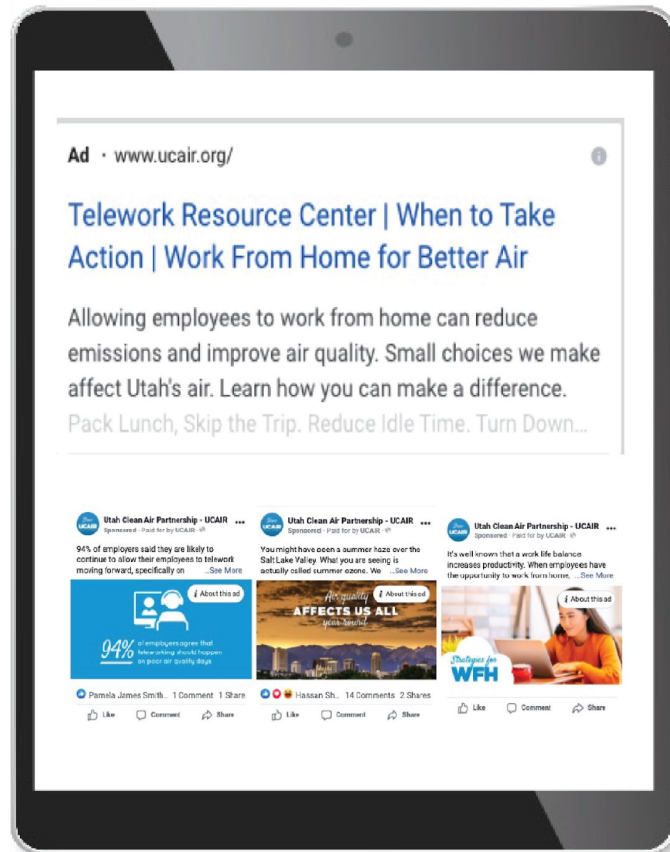
(1,700 clicks/12,000 impressions)

AIR QUALITY IN SLC UTAH

(340 clicks/2,400 impressions)

WORK FROM HOME

(300 clicks/1,800 impressions)



Budget Request

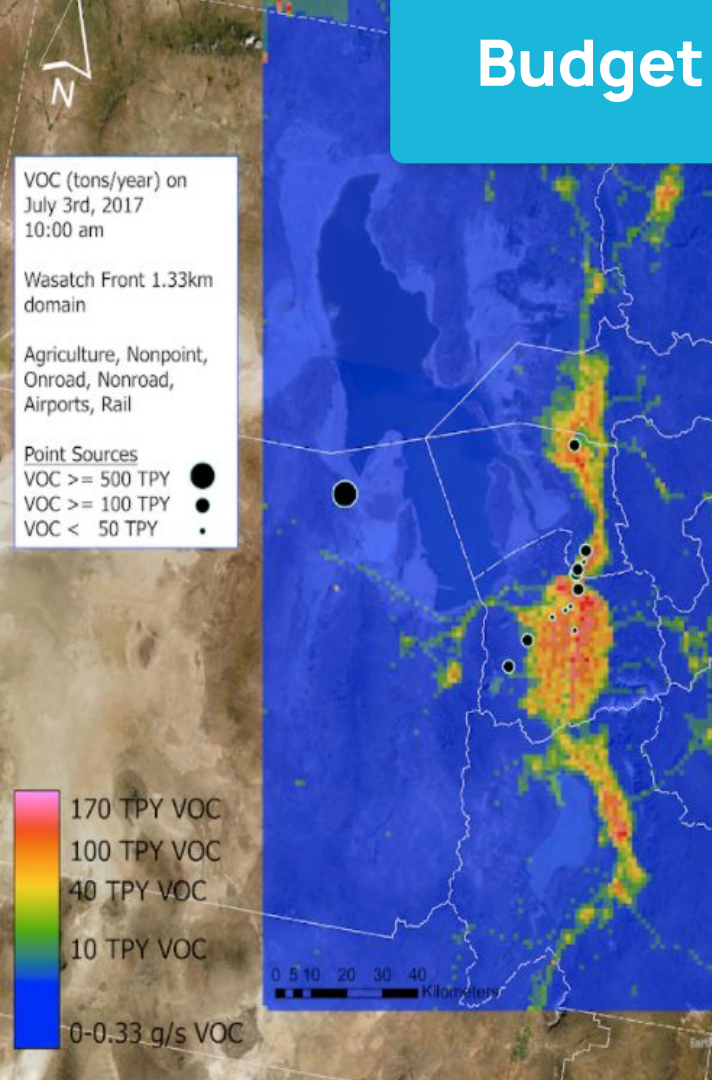


WASATCH BACK AIR MONITORING

Required due to population increase in 2020 Census

- New Air Monitoring Sites in Wasatch and Summit Counties
- \$462,500 one time equipment and site installation expenses
- \$25,000 ongoing operator and equipment expenses

Budget Request



OZONE PRECURSOR MONITORING

Required due to “Moderate” nonattainment status

- New Photochemical Assessment Monitoring Sites (PAMS)
- **\$3,235,600** one time equipment and site installation expenses
- **\$1,005,000** ongoing operator and equipment expenses

Budget Request



SUMMER AIR QUALITY OUTREACH

Ozone focused summer outreach campaign aimed at educating Utahns about summertime ozone issues which are less well known than our wintertime inversion challenges.

- **\$500,000** One Time

Budget Request



TARGETED SALARY INCREASES

*Governor's Budget Recommendation identified that the DEQ's Environmental Scientists median income was **26.8%** below market and Office Specialists were **15.8%** below market.*



Air Quality Federal Funds Request.

Air Quality
Incentive Program
Grants

\$4,888,300

National Clean Diesel
Grant

\$3,199,800

Targeted Airshed
Grant

\$500,000

ARPA PM2.5 Direct
Award Grant



UTAH DEPARTMENT *of*
ENVIRONMENTAL QUALITY
**AIR
QUALITY**

Bryce Bird

(801) 536-4064

bbird@utah.gov

Links for more information

Moderate Area Ozone State Implementation Plan (SIP) Development

<https://deg.utah.gov/air-quality/moderate-area-ozone-state-implementation-plan-sip-development>

Regional Haze SIP Development

<https://deg.utah.gov/air-quality/regional-haze-in-utah>

Air Quality Incentive Programs

<https://deg.utah.gov/air-quality/incentive-programs-aq/air-quality-incentive-programs>

Air Quality Research

<https://deg.utah.gov/category/air-quality/aq-applied-research-studies>

General Air Quality Information for Utah

<https://deg.utah.gov/division-air-quality>

